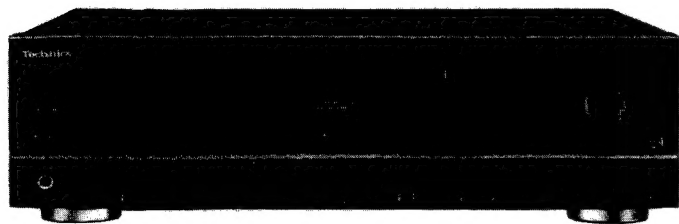


Service Manual

Stereo Integrated Amplifier

Amplifier

SU-VZ320



Colour

(K) Black Type

Areas

Suffix for Model No.	Area	Colour
(EB)	Great Britain.	(K)
(EG)	Continental Europe, Germany and Italy.	
(GN)	Oceania.	

SPECIFICATIONS (DIN 45 500)

20 Hz~20 kHz continuous power output both channels driven	2 × 40 W (8 Ω)
1 kHz continuous power output both channels driven (THD:1%)	2 × 50 W (8 Ω) 2 × 75 W (4 Ω)
63 Hz~12.5 kHz continuous power output both channels driven (THD: 0.7%)	2 × 45 W (8 Ω) 2 × 65 W (4 Ω)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.02% (8 Ω)
rated power at 1 kHz	0.007% (8 Ω)
half power at 20 Hz~20 kHz	0.02% (8 Ω)
half power at 1 kHz	0.007% (8 Ω)
Intermodulation distortion (50 Hz:7 kHz = 4:1, SMPTE)	
rated power	0.02% (8 Ω)
Residual hum and noise	1 mV
Damping factor	40 (8 Ω) 20 (4 Ω)
Headphones output level and impedance	450 mV/330 Ω
Load impedance	
A or B	4~16 Ω
A and B	8~16 Ω
Input sensitivity and impedance	
PHONO MM	2.5 mV/47 kΩ
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	150 mV/22 kΩ
Phono maximum input voltage (1 kHz, RMS)	
MM	150 mV (150 mV, IHF '66)
S/N (rated power, 4 Ω)	
PHONO MM	76 dB (79 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	91 dB (99 dB, IHF '66)
S/N at -26dB power (4 Ω)	
PHONO MM	68 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	70 dB

S/N at 50 mW power (4 Ω)

PHONO MM	64 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	64 dB

Frequency response

PHONO MM	RIAA standard curve ±1 dB (30 Hz~15 kHz)
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	3 Hz~80 kHz (+0, -3 dB) +0 dB, -0.3 dB (20 Hz~20 kHz)

Tone controls

BASS	50 Hz, +10~-10 dB
TREBLE	20 kHz, +10~-10 dB
Subsonic filter	30 Hz, -6 dB/oct
Loudness control (volume at -30 dB)	50 Hz, +9 dB

Output voltage

TAPE 1, TAPE 2/DAT REC OUT	150 mV
Channel balance (AUX, 250 Hz~6.3 kHz)	±1 dB
Channel separation (AUX, 1 kHz)	50 dB

■ GENERAL

Power consumption	175 W
Power supply	AC 50 Hz/60 Hz, 230 V/240 V
Dimensions (W × H × D)	430 × 125 × 320 mm
Weight	7.3 kg

Notes:

- Specifications are subject to change without notice. Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

Technics

■ CONTENTS

	Page		Page
BEFORE REPAIR	2	WIRING CONNECTION DIAGRAM	12
PROTECTION CIRCUITRY	2	PRINTED CIRCUIT BOARDS	13~16
ACCESSORY	2	BLOCK DIAGRAM	17
LOCATION OF CONTROLS	3	REPLACEMENT PARTS LIST	18~20
CONNECTIONS	4, 5	CABINET PARTS LOCATION	21, 22
DISASSEMBLY INSTRUCTIONS	6~8	PACKAGING	23
SCHEMATIC DIAGRAM	9~11		

■ BEFORE REPAIR

- (1) Turn off the power supply. Using a 10Ω, 5 W resistor connect both ends of power supply capacitors (C705, C706, 6800 μF) in order to discharge the voltage.
- (2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 230 V/240 V.

Power supply voltage	AC 230 V	AC 240 V
Consumed current 50 Hz	57~230 mA	55~220 mA

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- *No sound is heard when the power is switched ON.
- *Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

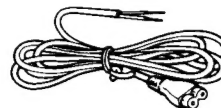
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

■ ACCESSORY

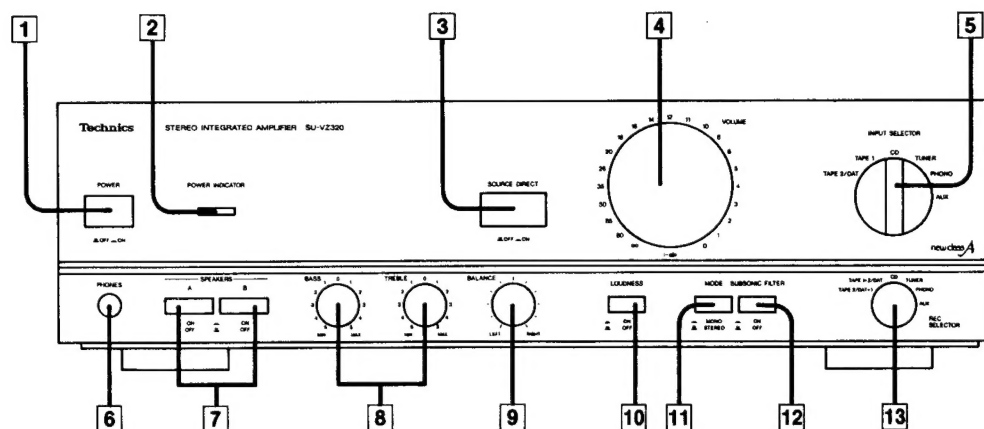
- AC Power Supply Cord 1
- RJA0019-1K For (EG) area
- SJA193 For (EB) area
- SJA173 For (GN) area



Configuration of the AC power supply cord differs according to area.

LOCATION OF CONTROLS

•Front panel



1 Power switch (POWER)

2 Power indicator (POWER INDICATOR)

When the power is switched ON, this indicator illuminates.

3 Source direct switch (SOURCE DIRECT)

This switch is used when enjoying high quality sound playback such as that from a CD.

4 Volume control (VOLUME)

5 Input selector (INPUT SELECTOR)

This selector is used to select the sound source to be heard, such as a disc, radio broadcast, etc.

6 Headphones jack (PHONES)

7 Speaker selectors (SPEAKERS)

These selectors are used to select the speaker systems to be used.

8 Tone controls (BASS/TREBLE)

The bass control is used to adjust the low-frequency sound range, and the treble control is used to adjust the high-frequency sound range.

9 Balance control (BALANCE)

This control is used to adjust the left/right volume balance.

10 Loudness switch (LOUDNESS)

This switch is used when listening to music at a low volume level. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is set to the "ON" position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.

11 Mode selector (MODE)

This selector is used to select stereo or monaural operation.

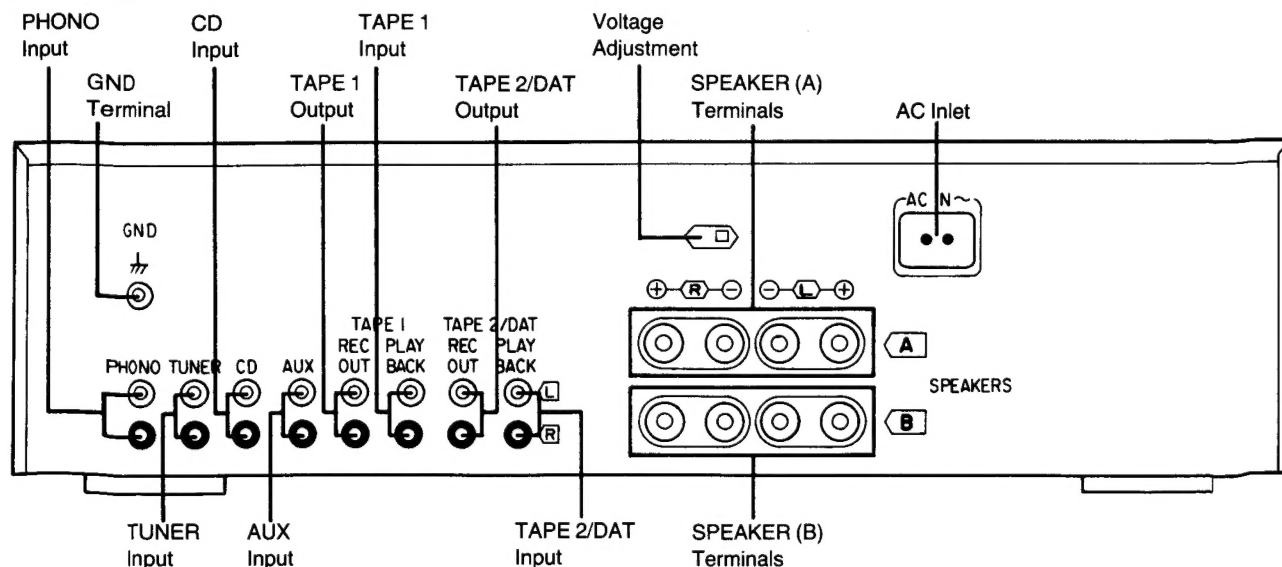
12 Subsonic filter switch (SUBSONIC FILTER)

This switch is used to eliminate ultra-low-frequency noise such as motor "rumble" and unusual vibration of the woofer cone caused by a warped disc, etc.

13 Recording selector (REC SELECTOR)

This selector is used to select the sound source to be recorded by the connected tape deck 1 and/or tape deck 2 (or DAT).

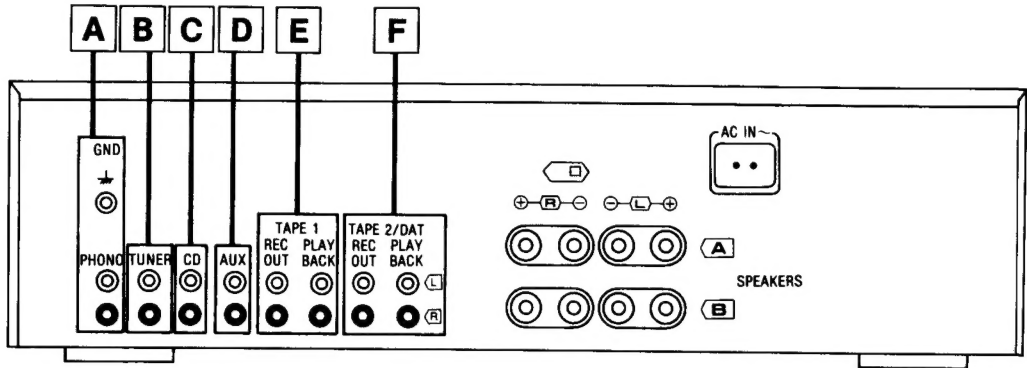
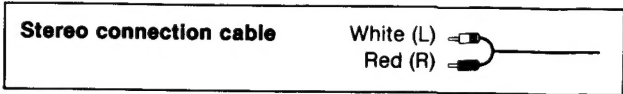
•Rear Panel



*Phono input capacitance is about 270 pF.

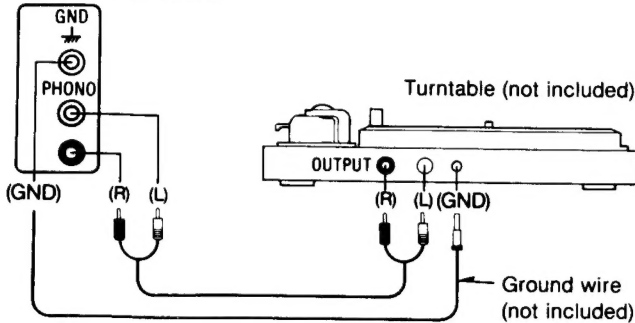
CONNECTIONS

Make connections to each component in the system by using stereo connection cables (not included).



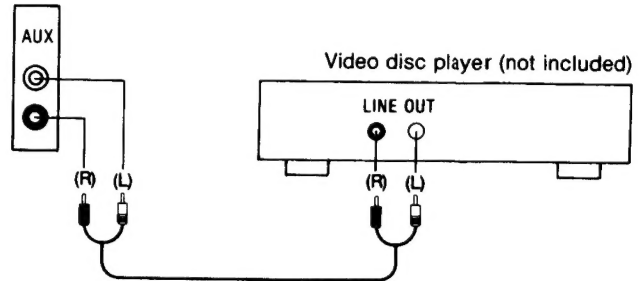
A "PHONO" terminals

Connect a turntable.



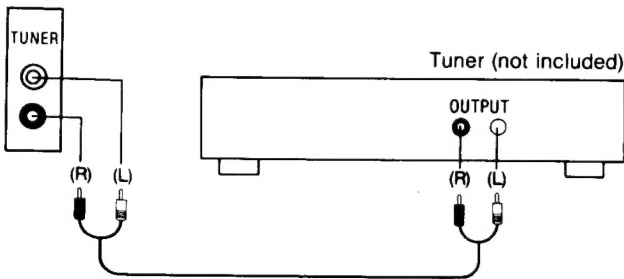
D "AUX" terminals

Connect a component such as a video disc player (audio only connectable), etc.



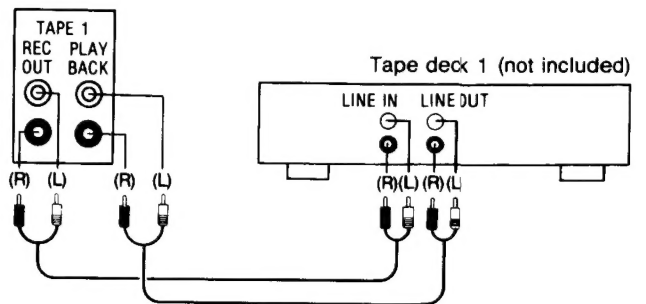
B "TUNER" terminals

Connect a tuner.



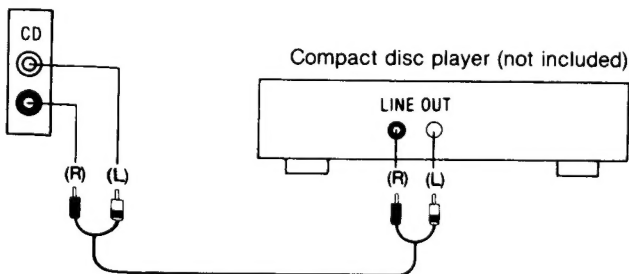
E "TAPE 1" terminals

Connect a first tape deck.



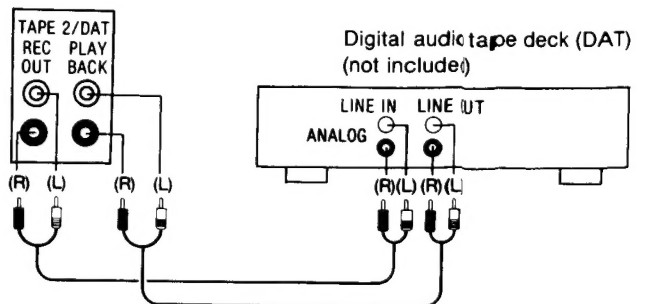
C "CD" terminals

Connect a compact disc player.



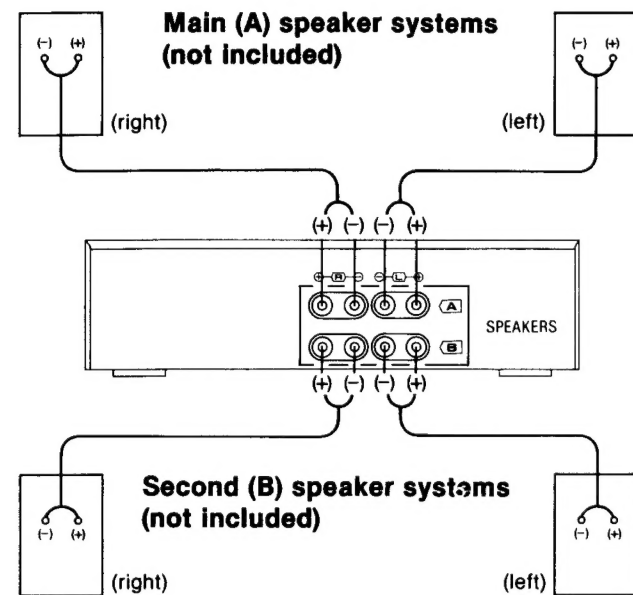
F "TAPE 2/DAT" terminals

Connect a second tape deck or a digital audiotape deck (DAT).



Connection to speaker systems

One pair of speaker systems can be connected to the "A" terminals of this unit and one pair to the "B" terminals. Make connections to each speaker system by using speaker cords (not included).



Load impedance

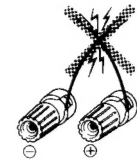
- When only the "A" or only the "B" terminals are used: 4–16 ohms
- When both the "A" and the "B" terminals are used simultaneously: 8–16 ohms

To connect cords to terminals

- Strip off the outer covering, and twist the center conductor. 10 mm Twist
- Turn completely to the left.
- Insert the wire and turn completely to the right. Pull the cord to assure a proper connection.

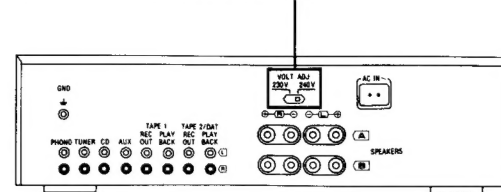
Note: Be sure to only connect positive (+) cords to positive (+) terminals, and negative (-) cords to negative (-) terminals.

Note: To prevent damage to circuitry, never short-circuit the plus (+) and minus (-) speaker wires.



To set the power voltage

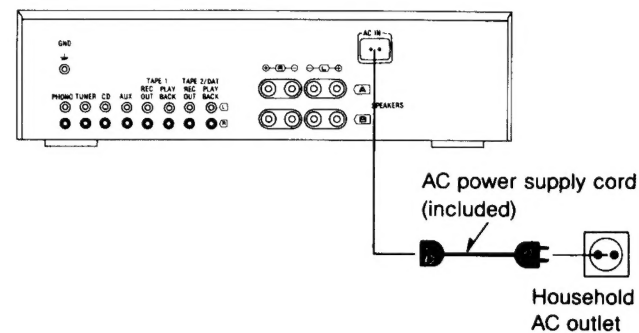
Set the voltage selector to the voltage setting for the area in which the unit will be used. [Use a minus (-) screwdriver]



Note: Note that this unit will be seriously damaged if this setting is not made correctly.

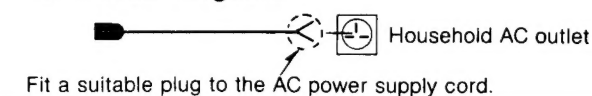
To connect the AC power supply cord (included)

Connect the AC power supply cord (included) after all other cables and cords are connected.



Note: Configuration of AC power supply cord differs according to area.

For United Kingdom

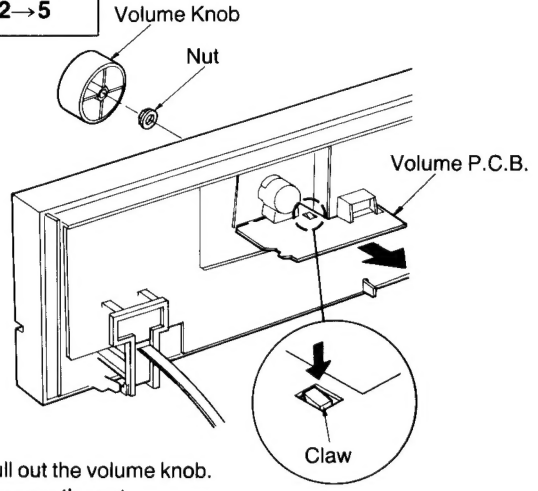
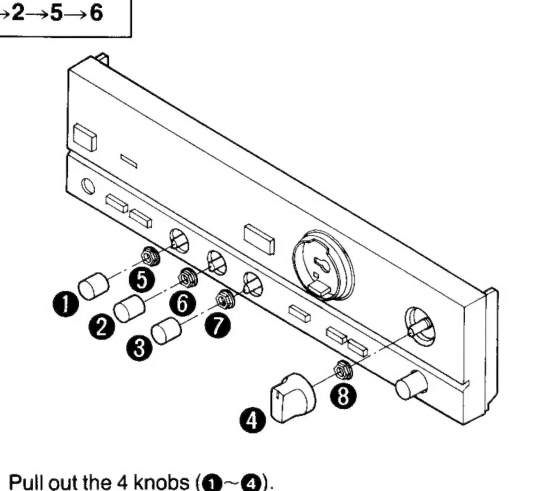
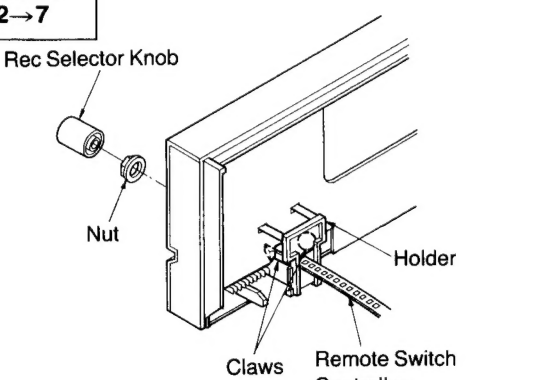
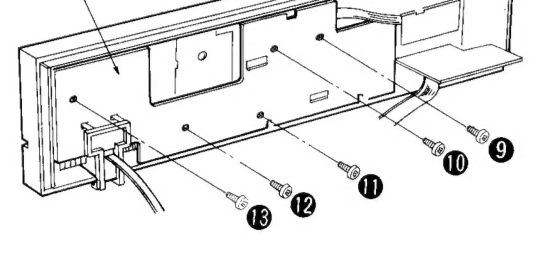
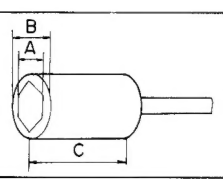
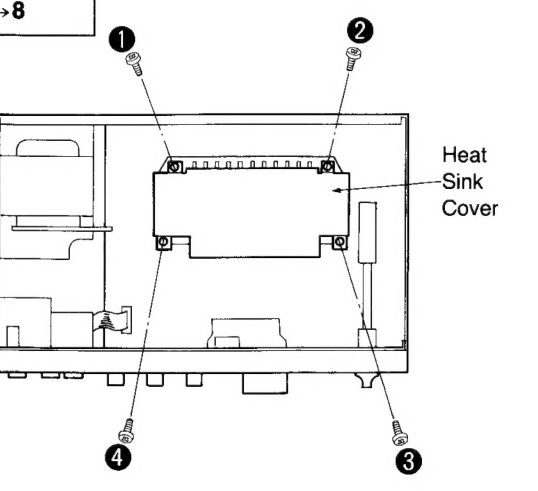
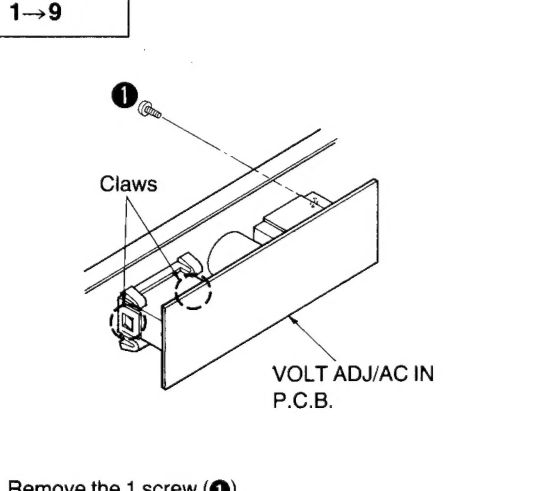


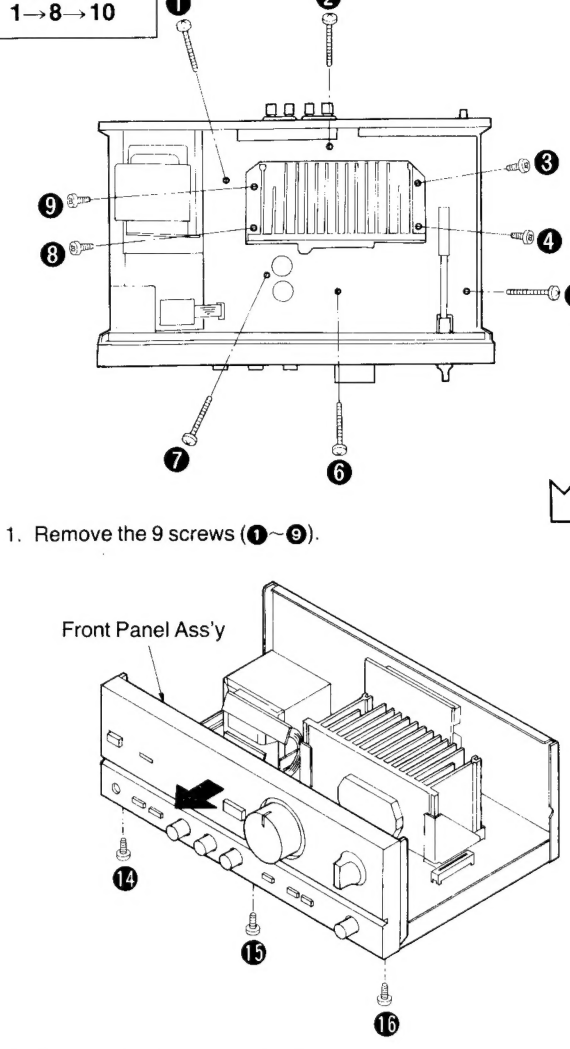
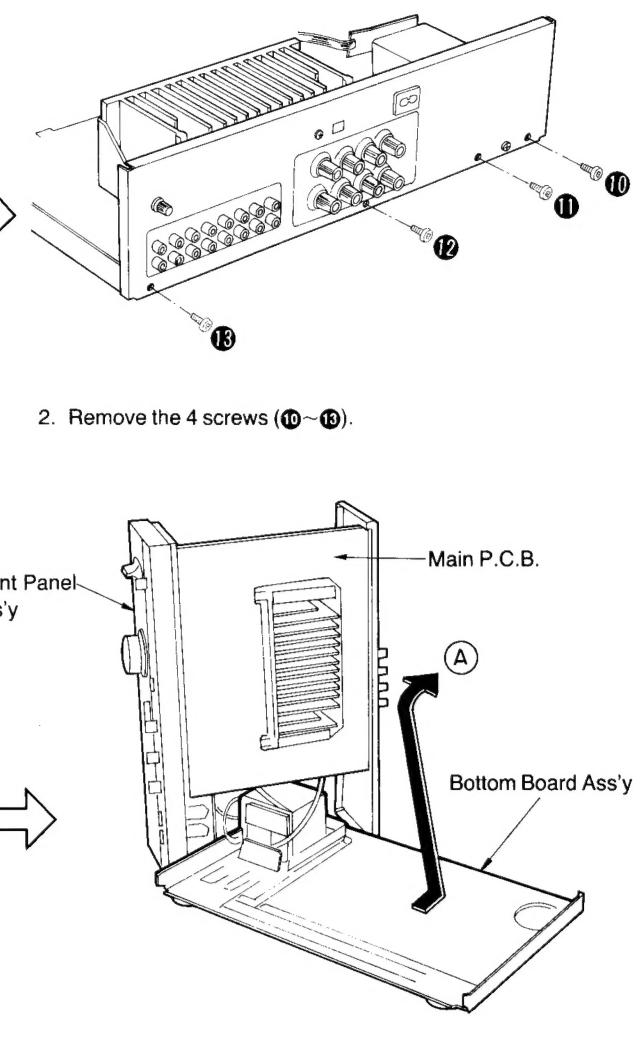
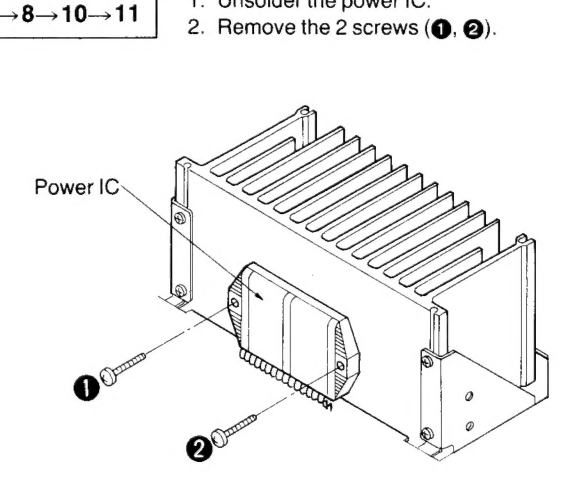
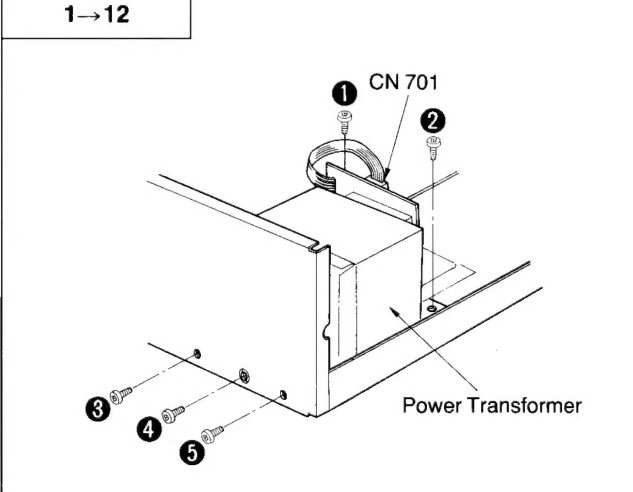
DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

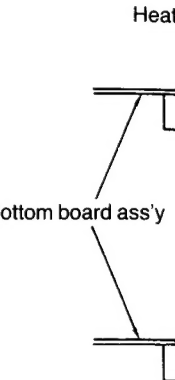
Ref. No. 1	Removal of the Cabinet	Ref. No. 2	Removal of the Font Panel Ass'y
Procedure 1	<p>•Remove the 7 screws (1~7).</p>	Procedure 1→2	<p>1. Remove the 1 flat cable (CN501). 2. Remove the remote switch controller.</p>
Ref. No. 3	Removal of the Power Switch P.C.B.	Front Panel Ass'y	<p>3. Remove the 3 screws (1~3). 4. Remove the front panel ass'y in the direction of arrow.</p>
Procedure 1→2→3	<p>1. Remove the 2 screws (1, 2). 2. Release the 1 claw. 3. Remove the power button by pushing it from behind the front panel ass'y.</p>	Ref. No. 4	Removal of the LED P.C.B. and Headphones P.C.B.
Procedure 1→2→3→4	<p>1. Remove the 1 screw (1). 2. Release the 2 claws.</p>	<p>•Remove the 4 claws.</p>	<p>1. Fully rotate the recording selector Knob counterclockwise. 2. Push the switch slide in the direction of arrow.</p>
	<p>Removal of the LED P.C.B. 1. Remove the 1 screw (1). 2. Release the 2 claws.</p> <p>Removal of the headphones P.C.B. 1. Remove the 2 screws (2, 3). 2. Release the 1 claw.</p>	<p>Remote Switch Controller</p> <p>Claws</p> <p>Claws</p>	<p>Replacing of the Remote Switch Controller</p> <p>Remote Switch Controller</p> <p>Lever</p> <p>Switch Slide</p> <p>Rec Selector Knob</p>

<p>Ref. No. 5</p> <p>Removal of the Volume P.C.B.</p>	<p>Ref. No. 6</p> <p>Removal of the Operation P.C.B.</p>
<p>Procedure 1→2→5</p>  <p>Volume Knob Nut Volume P.C.B. Claw</p> <ol style="list-style-type: none"> 1. Pull out the volume knob. 2. Remove the nut. 3. Release the 1 claw. 	<p>Procedure 1→2→5→6</p>  <ol style="list-style-type: none"> 1. Pull out the 4 knobs (1~4). 2. Remove the 4 nuts (5~8).
<p>Ref. No. 7</p> <p>Removal of the Remote Switch Controller</p>	
<p>Procedure 1→2→7</p>  <p>Rec Selector Knob Nut Holder Claws Remote Switch Controller</p> <ol style="list-style-type: none"> 1. Pull out the rec selector knob. 2. Remove the nut. 3. Remove the remote switch controller in the direction of arrow. 	<p>Operation P.C.B.</p>  <ol style="list-style-type: none"> 3. Remove the 5 screws (9~13). <p>•Use a wrench of the dimensions shown in the illustration above to remove nuts.</p>  <p>A: 11 mm B: 16 mm C: longer than 22 mm</p>
<p>Ref. No. 8</p> <p>Removal of the Heat Sink Cover</p>	<p>Ref. No. 9</p> <p>Removal of the VOLT ADJ/AC IN P.C.B.</p>
<p>Procedure 1→8</p>  <p>Heat Sink Cover</p> <p>•Remove the 4 screws (1~4).</p>	<p>Procedure 1→9</p>  <p>Claws VOLT ADJ/AC IN P.C.B.</p> <ol style="list-style-type: none"> 1. Remove the 1 screw (1). 2. Release the 2 claws.

<p>Ref. No. 10</p> <p>Checking of the Main P.C.B.</p>	
<p>Procedure 1→8→10</p>  <ol style="list-style-type: none"> 1. Remove the 9 screws (1~9). <p>Front Panel Ass'y</p> <ol style="list-style-type: none"> 3. Remove the 3 screws (14~16). 4. Remove the front panel ass'y. 	 <ol style="list-style-type: none"> 2. Remove the 4 screws (10~13). <p>Main P.C.B.</p> <p>Bottom Board Ass'y</p> <ol style="list-style-type: none"> 5. Remove the main P.C.B. unit in the direction of arrow (A). 6. Reinstall the front panel ass'y to the main P.C.B.
<p>Ref. No. 11</p> <p>Removal of the Power IC</p>	<p>Ref. No. 12</p> <p>Removal of the Power Transformer</p>
<p>Procedure 1→8→10→11</p>  <p>Power IC</p> <ol style="list-style-type: none"> 1. Unsolder the power IC. 2. Remove the 2 screws (1, 2). <p>•When mounting the power IC, apply silicon thermal compound (RFKX0002 or equivalent) to the rear of the power IC.</p>	<p>Procedure 1→12</p>  <p>CN 701 Power Transformer</p> <ol style="list-style-type: none"> 1. Remove the 1 flat cable (CN701). 2. Remove the 5 screws (1~5).

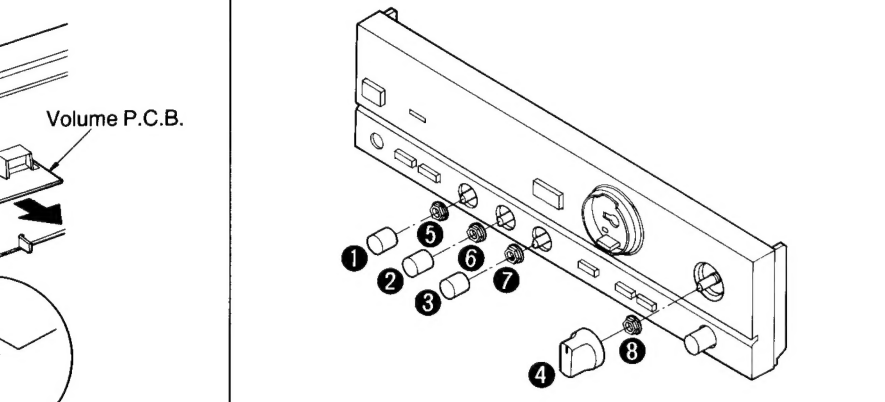
•Replacement of

Remove the 4 heat r...
with a pair of nippers...
To replace the foot (...)
melt the 4 posts with...



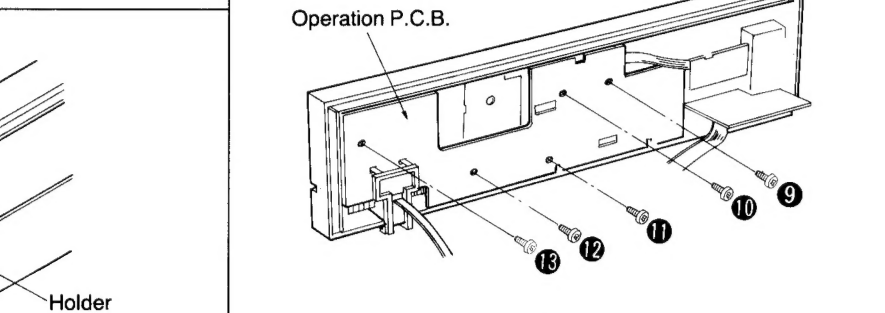
Volume P.C.B. **Ref. No. 6** **Removal of the Operation P.C.B.**

Procedure
1→2→5→6



1. Pull out the 4 knobs (1~4).
2. Remove the 4 nuts (5~8).

Volume Switch



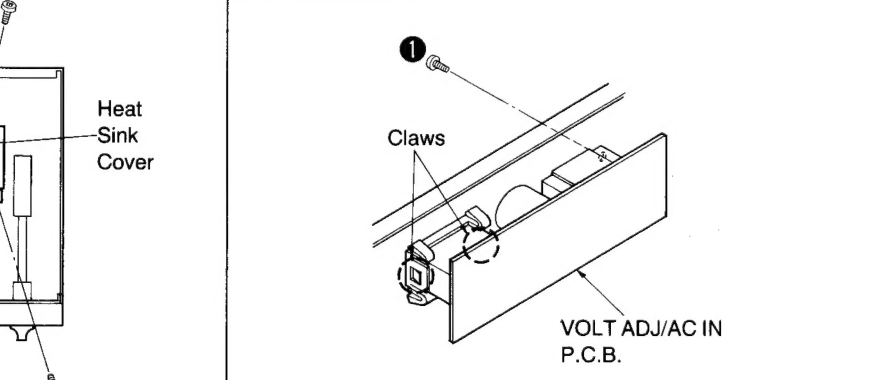
3. Remove the 5 screws (9~13).

•Use a wrench of the dimensions shown in the illustration above to remove nuts.

A: 11 mm
B: 16 mm
C: longer than 22 mm

Heat Sink Cover **Ref. No. 9** **Removal of the VOLT ADJ/AC IN P.C.B.**

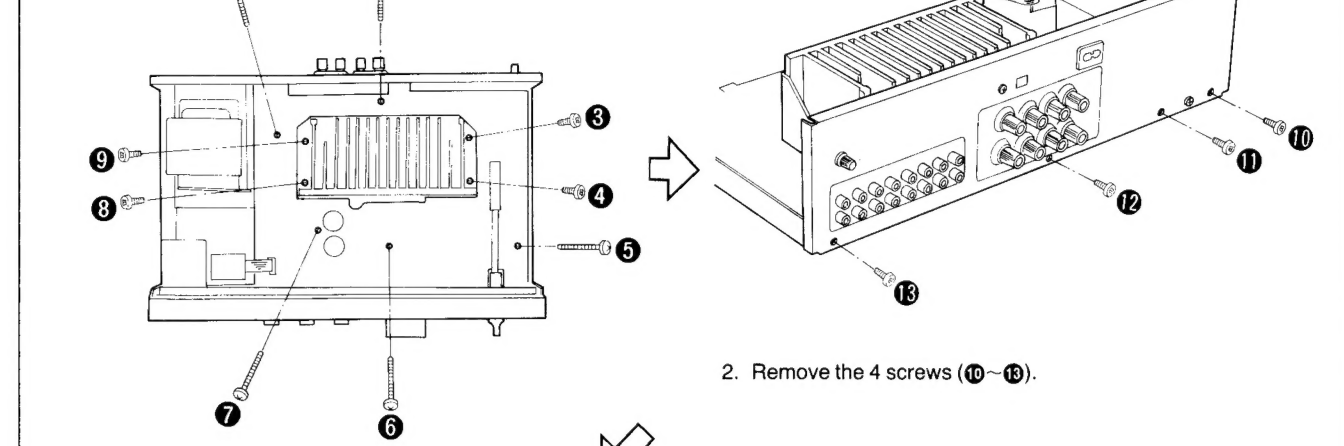
Procedure
1→9



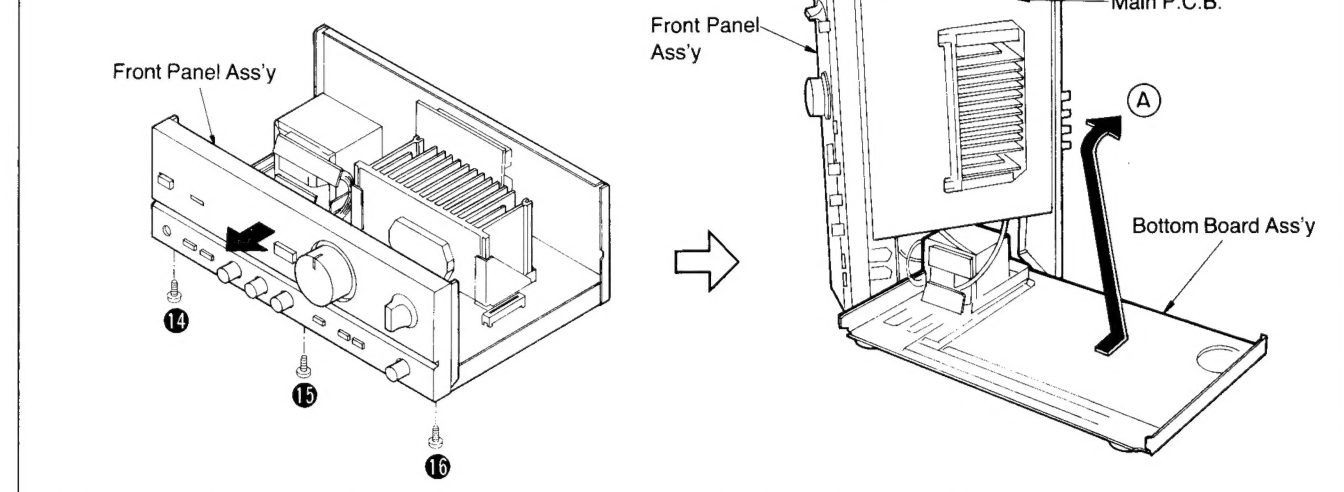
1. Remove the 1 screw (1).
2. Release the 2 claws.

Ref. No. 10 **Checking of the Main P.C.B.**

Procedure
1→8→10



1. Remove the 9 screws (1~9).

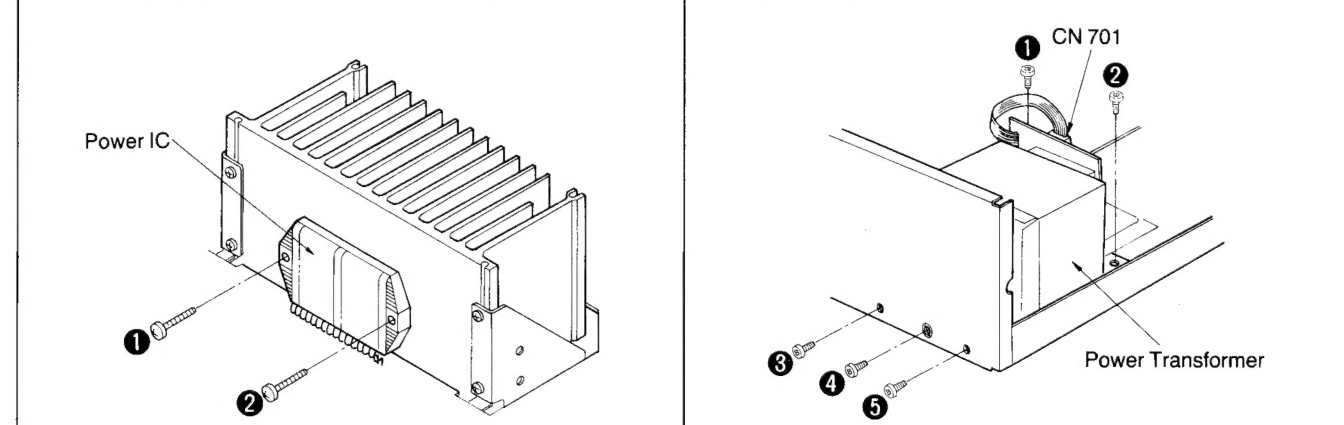


3. Remove the 3 screws (14~16).
4. Remove the front panel ass'y.

5. Remove the main P.C.B. unit in the direction of arrow (A).
6. Reinstall the front panel ass'y to the main P.C.B.

Ref. No. 11 **Removal of the Power IC** **Ref. No. 12** **Removal of the Power Transformer**

Procedure
1→8→10→11 **Procedure**
1→12



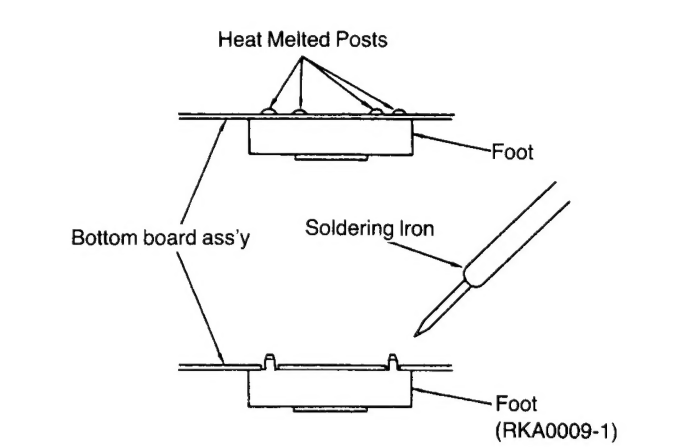
1. Unsolder the power IC.
2. Remove the 2 screws (1, 2).

•When mounting the power IC, apply silicon thermal compound (RFKX0002 or equivalent) to the rear of the power IC.

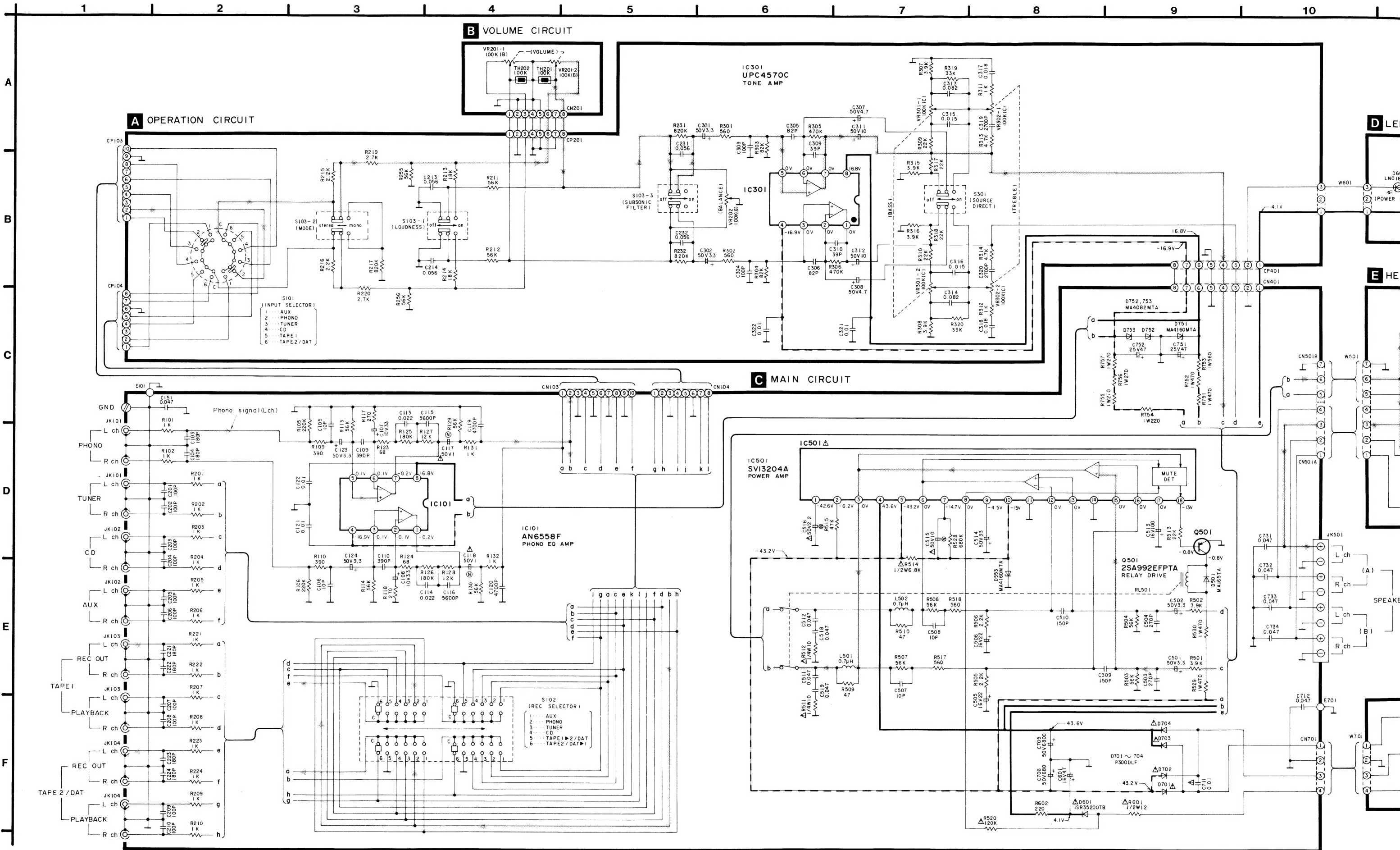
1. Remove the 1 flat cable (CN701).
2. Remove the 5 screws (1~5).

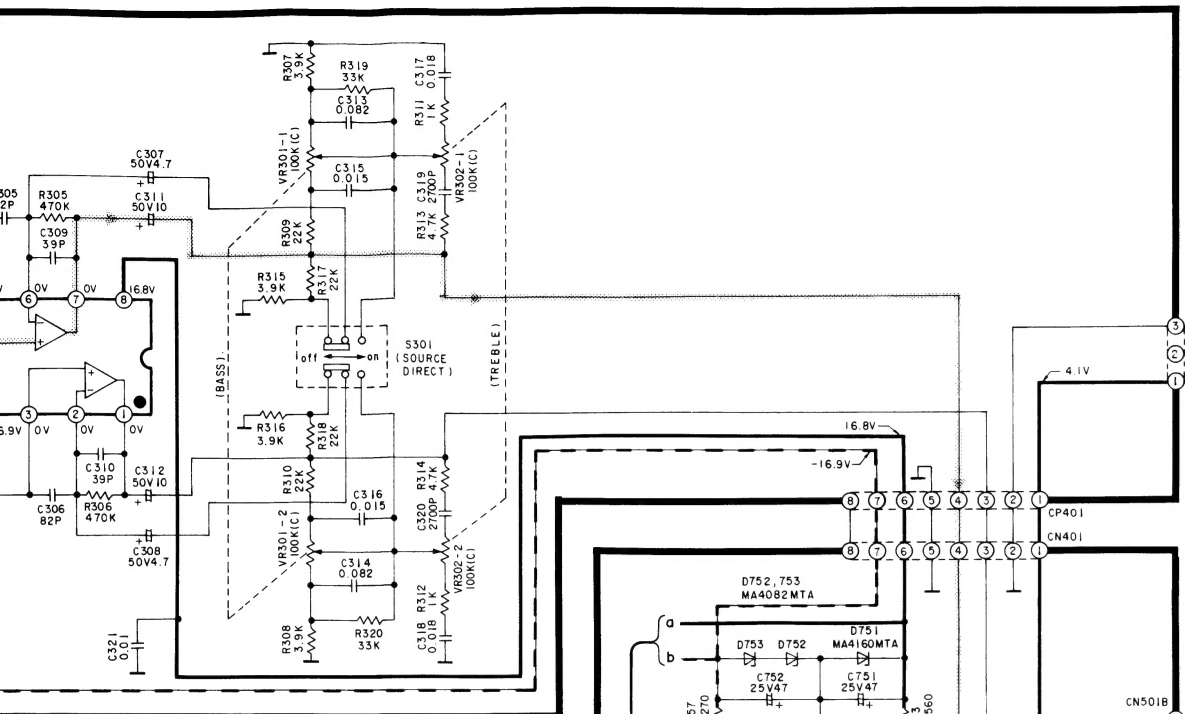
Replacement of the Foot.

Remove the 4 heat melted posts on the bottom board ass'y with a pair of nippers or similar tool.
To replace the foot (RKA0009-1) on the bottom board ass'y, melt the 4 posts with a soldering iron.

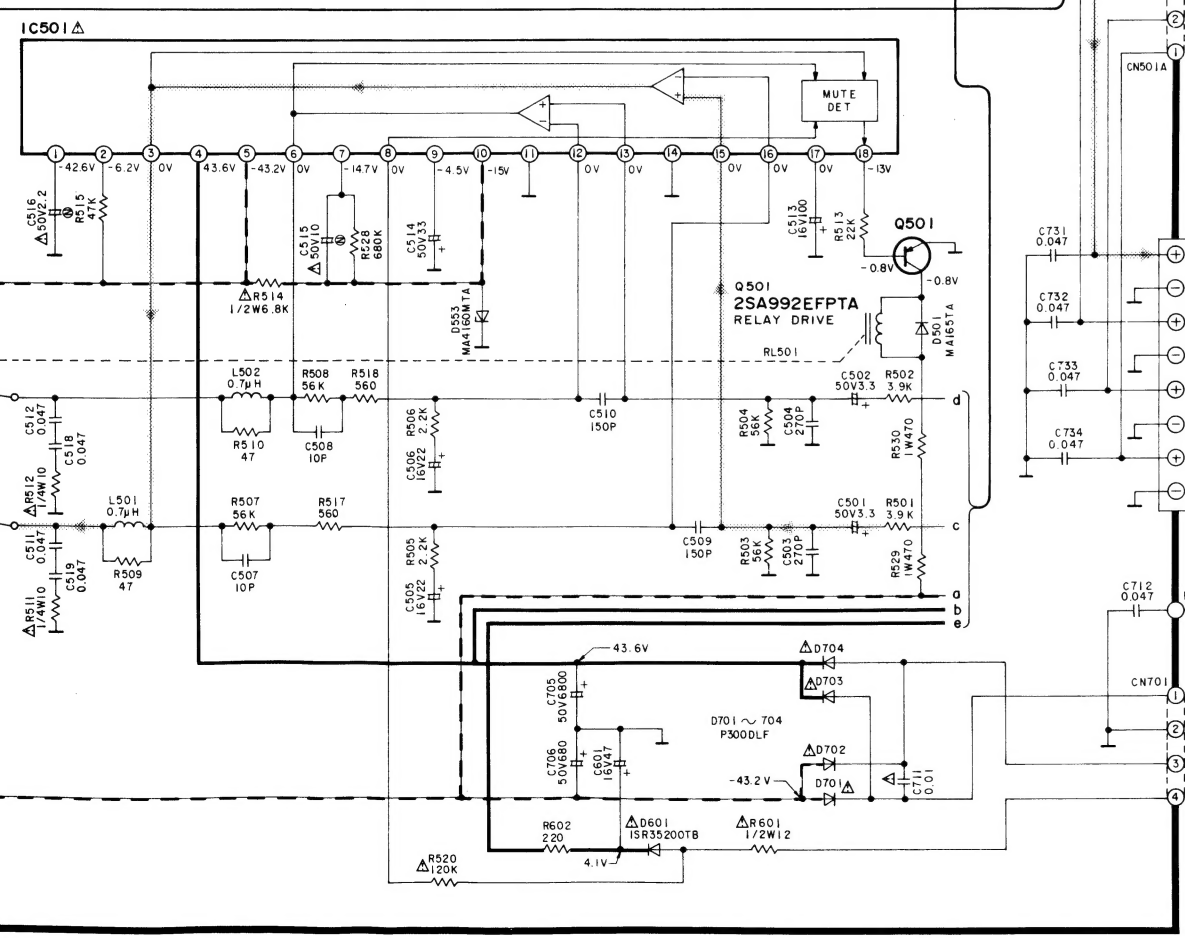


SCHEMATIC DIAGRAM (Parts list on pages 18, 19)

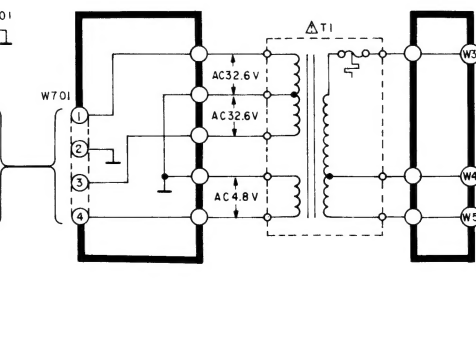
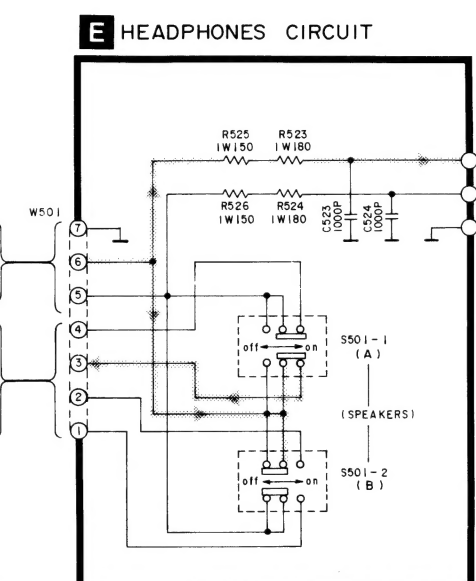
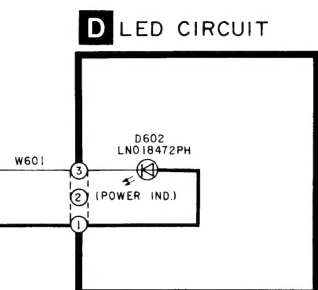




N CIRCUIT



IC501 Δ



Notes:

- S1 : Power switch in "on" position.
- S2 : Voltage adjustment switch in "230 V" position.
- S101 : Input selector switch in "PHONO" position.
- S102 : Recording selector switch in "TAPE 2/DAT ▶ 1" position.
- S103-1 : Loudness switch in "off" position.
- S103-2 : Mode switch in "stereo" position.
- S103-3 : Subsonic filter switch in "off" position.
- S301 : Source direct switch in "off" position.
- S501-1 : Speaker (A) switch in "on" position.
- S501-2 : Speaker (B) switch in "off" position.

•Indicated voltage values are the standard values for the unit measured with an electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

- : Positive Voltage Line
- - - - - : Negative Voltage Line
- : Phono Signal Line

- Important safety notice: Components identified by a triangle mark have special characteristics important for safety. When replacing any of these components, use only manufacturer-specified parts.
- This schematic diagram may be modified at any time with the development of new technology.

Caution!

- IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.

WIRING CONNECTION DIAGRAM

12 | 13 | 14 | 15 | 16

Notes:

- S1 : Power switch in "on" position.
- S2 : Voltage adjustment switch in "230 V" position.
- S101 : Input selector switch in "PHONO" position.
- S102 : Recording selector switch in "TAPE 2/DAT ▶ 1" position.
- S103-1 : Loudness switch in "off" position.
- S103-2 : Mode switch in "stereo" position.
- S103-3 : Subsonic filter switch in "off" position.
- S301 : Source direct switch in "off" position.
- S501-1 : Speaker (A) switch in "on" position.
- S501-2 : Speaker (B) switch in "off" position.

●Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

- : Positive Voltage Line
- - - : Negative Voltage Line
- ⋯ : Phono Signal Line

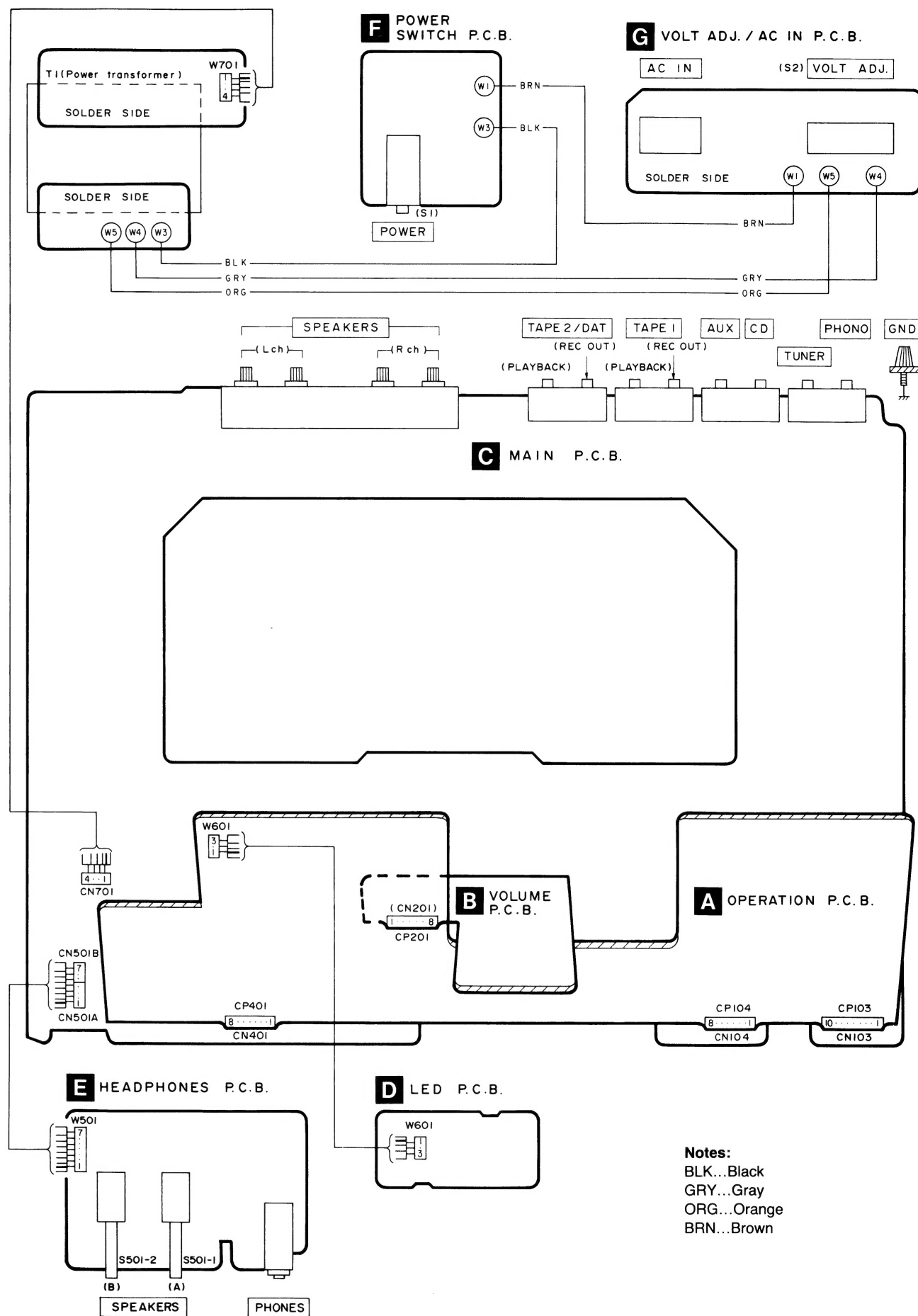
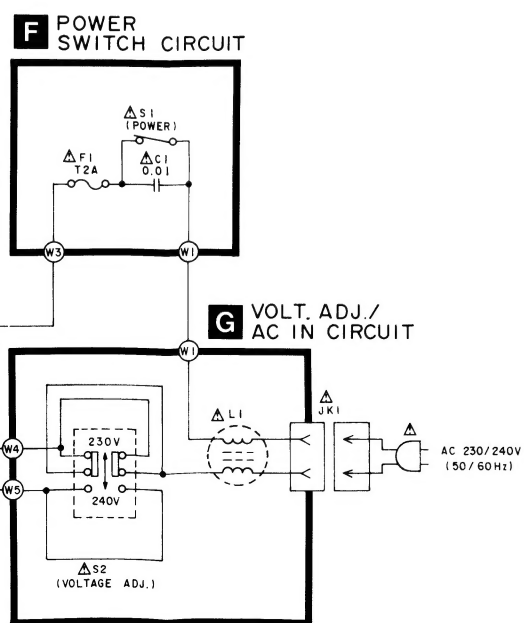
Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

●This schematic diagram may be modified at any time with the development of new technology.

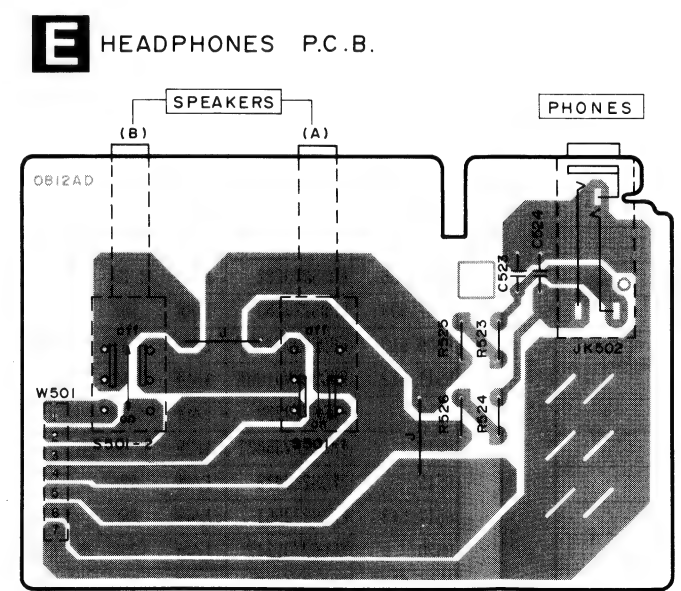
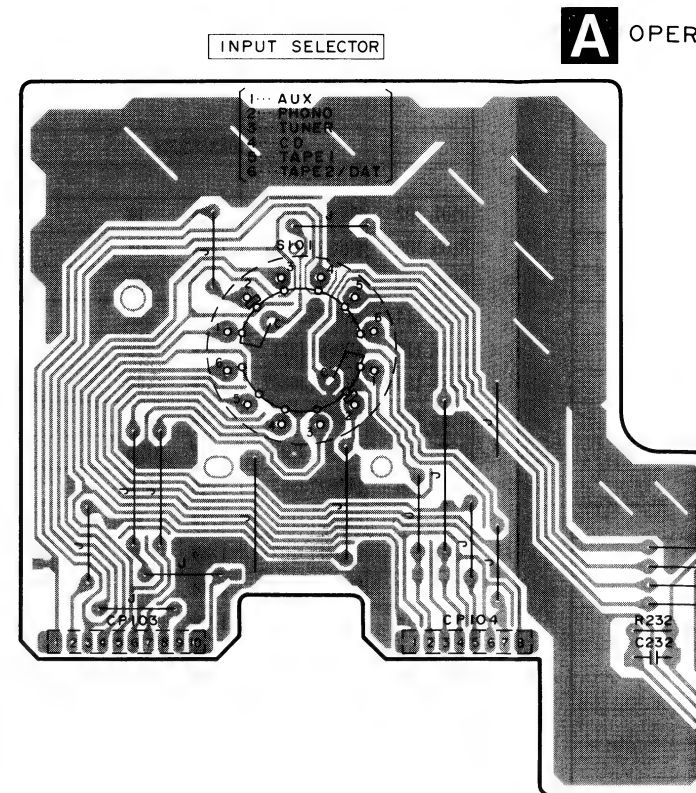
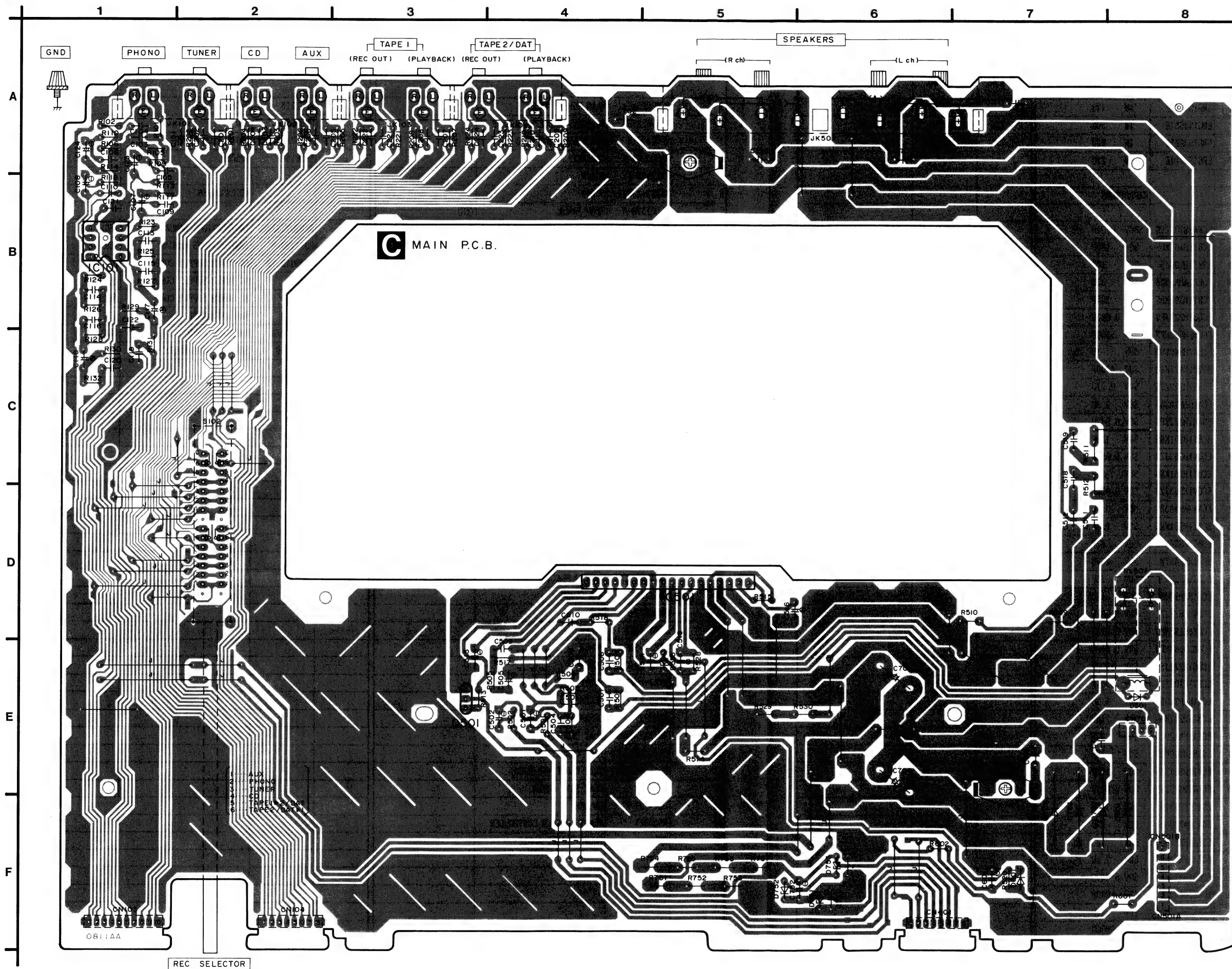
Caution!

- IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.



- Notes:**
 BLK...Black
 GRY...Gray
 ORG...Orange
 BRN...Brown

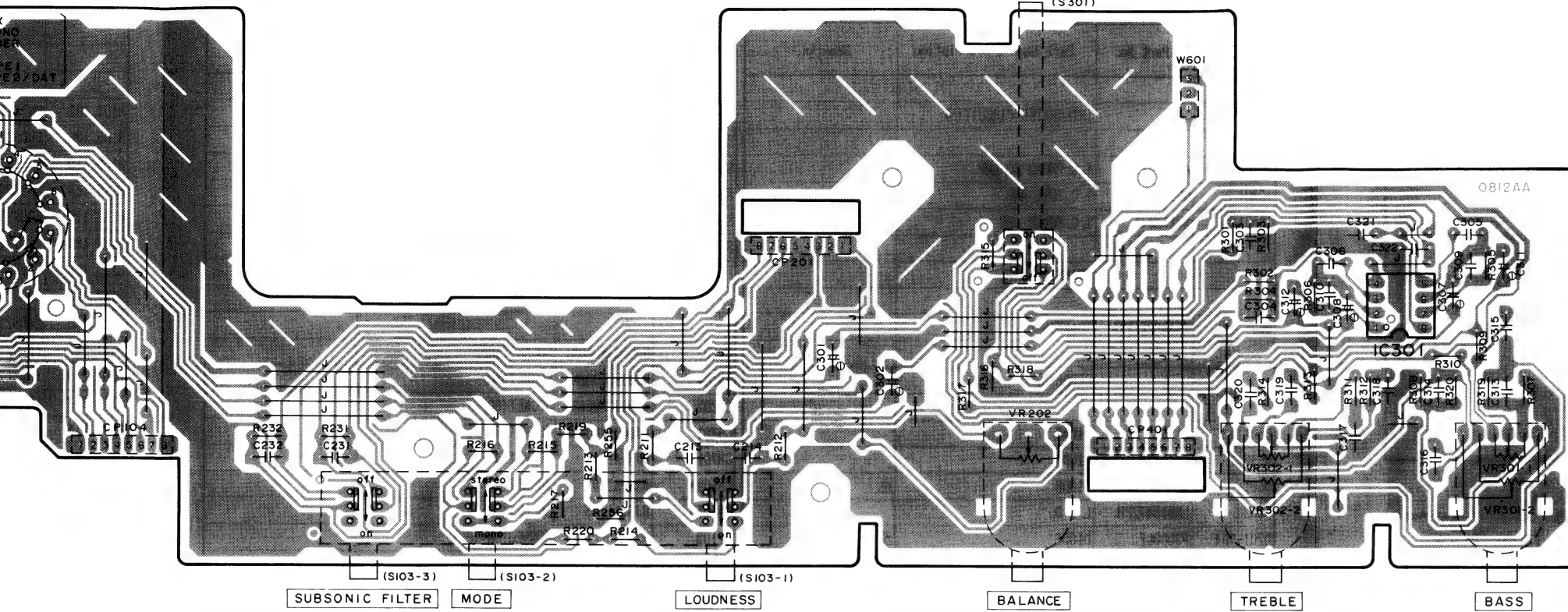
PRINTED CIRCUIT BOARDS (Parts list on pages 18, 19)



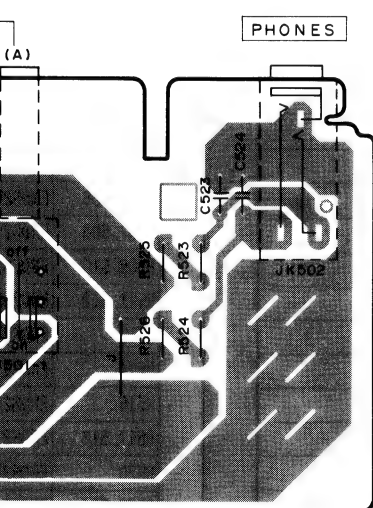
•This circuit board diagram may be modified at any time with the d

SELECTOR

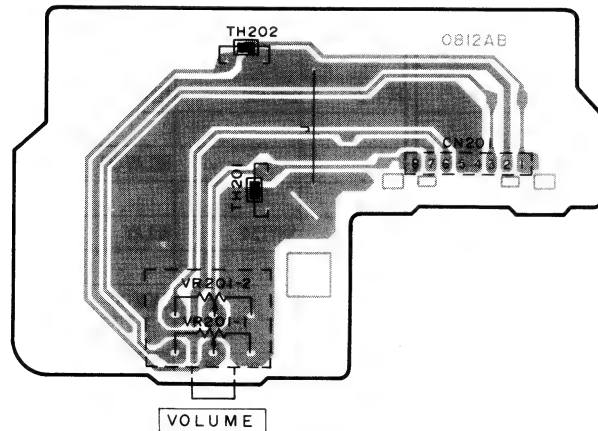
A OPERATION P.C.B.



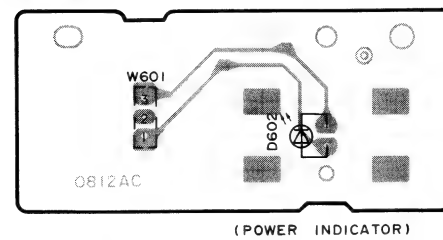
P.C.B.



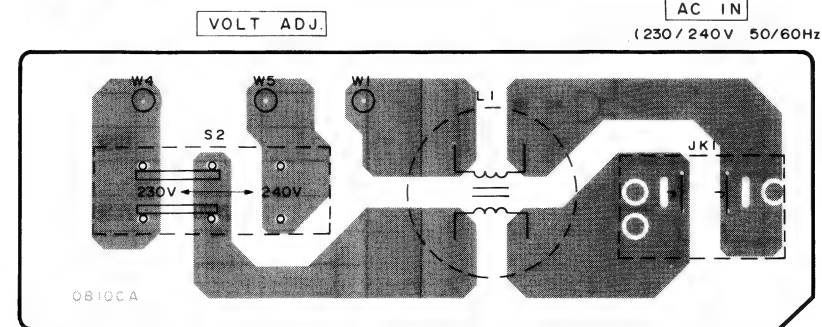
B VOLUME P.C.B.



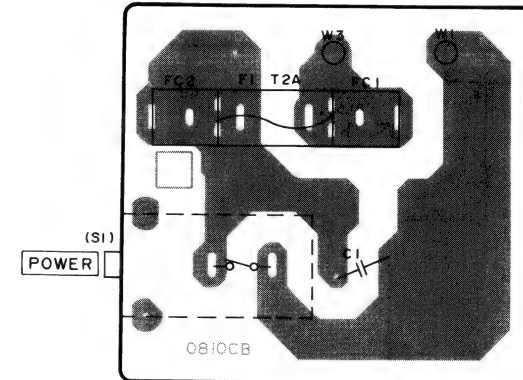
D LED P.C.B.



G VOLT ADJ. / AC IN P.C.B.

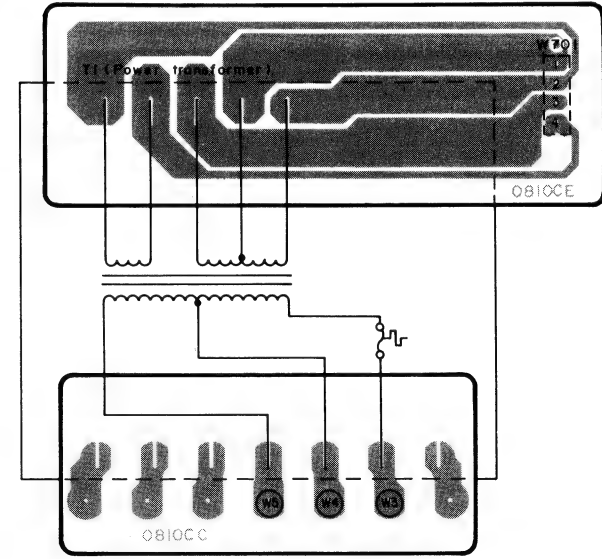


F POWER SWITCH P.C.B.



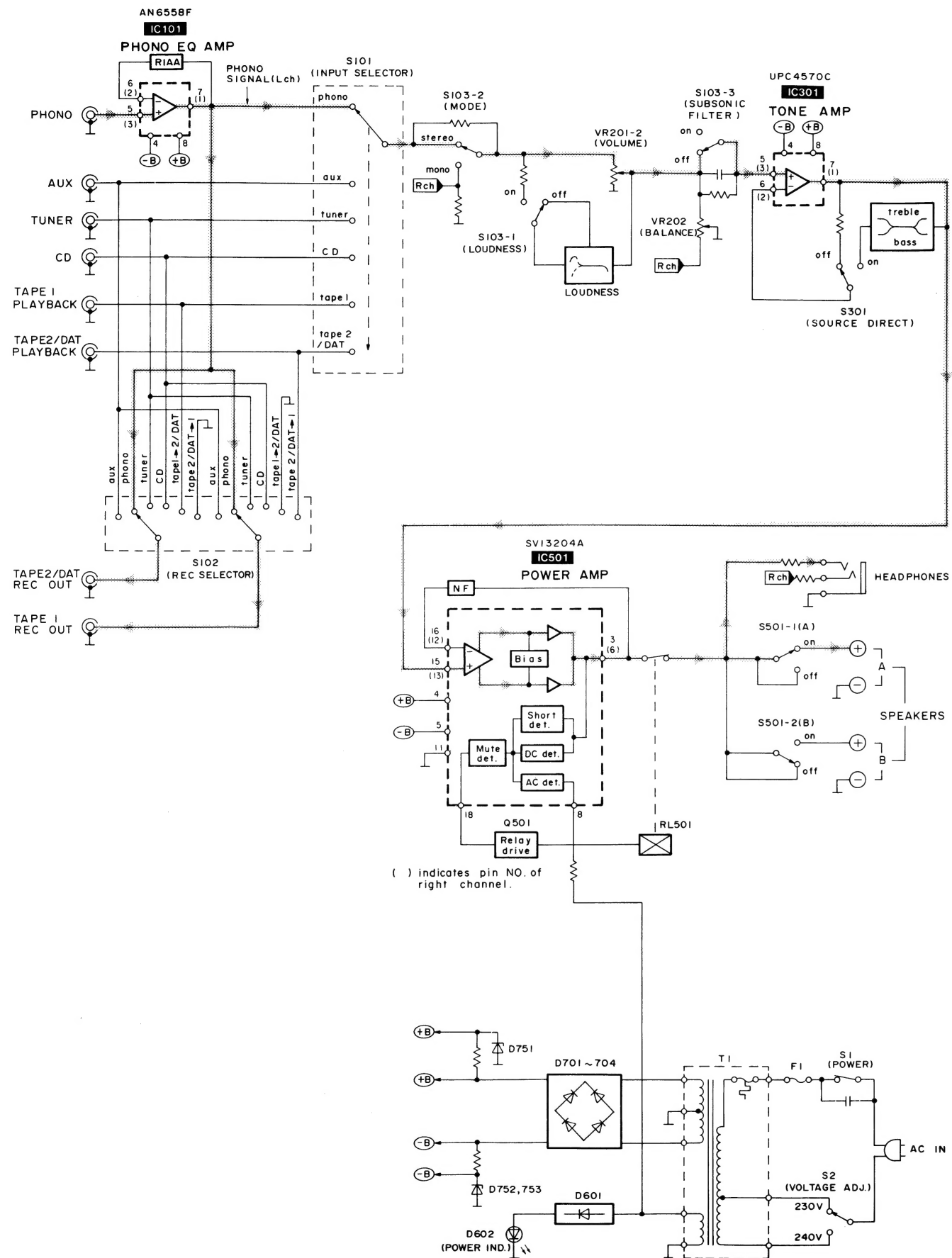
•Terminal guide of IC's transistors and diodes

<p>AN658F UPC4570C</p>	<p>SVI3204A</p>
<p>2SA992EFPTA</p>	<p>MA165TA ISR35200TB</p>
<p>MA4160MTA</p>	<p>MA4082MTA</p>
<p>P300DLF</p>	<p>LN018472PH</p>



may be modified at any time with the development of new technology.

BLOCK DIAGRAM



REPLACEMENT PARTS LIST

Notes : * Important safety notice:

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

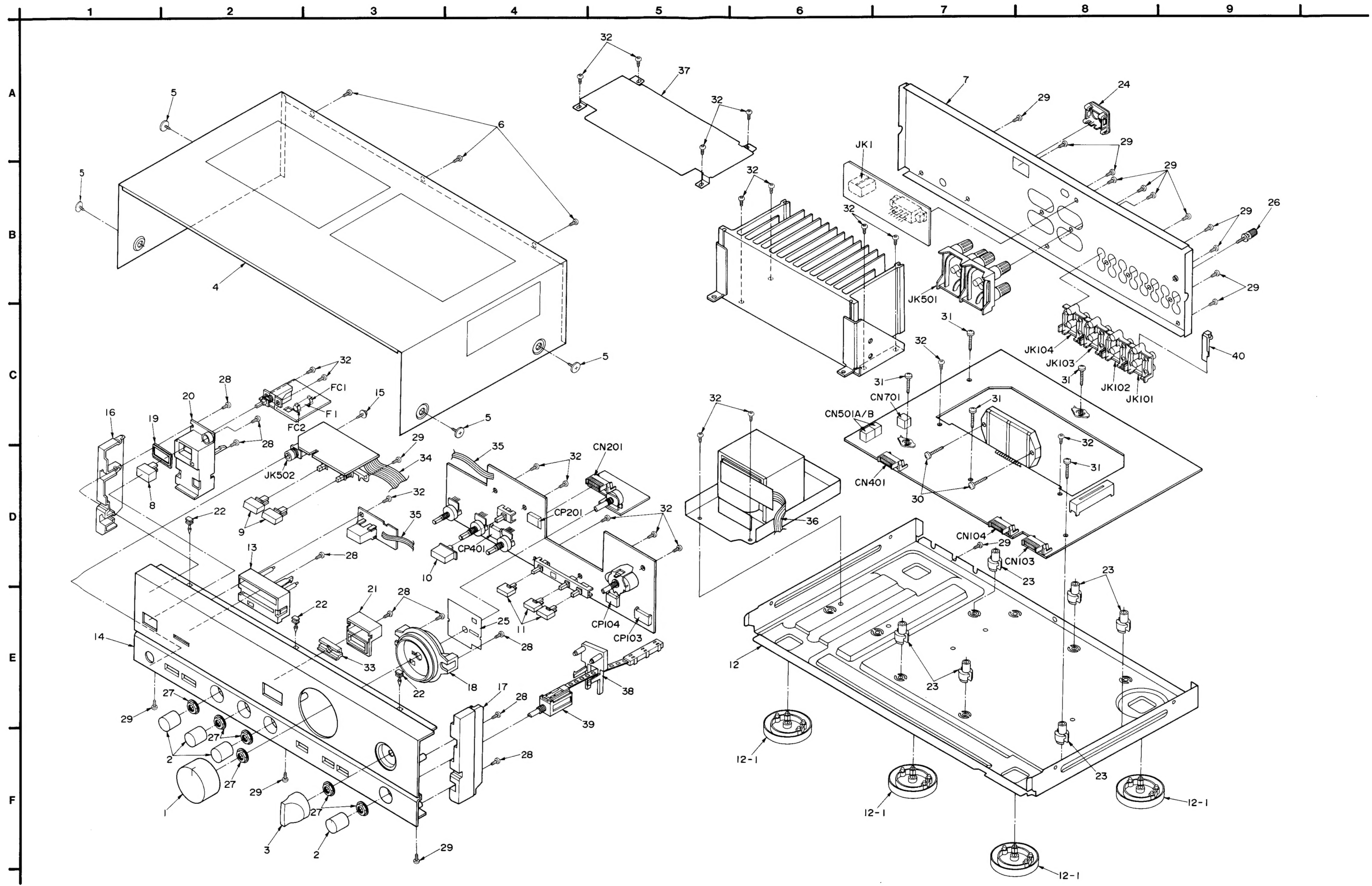
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT (S)		S1	ESB8249V	SW, POWER	Δ
				S2	ESD26200A	SW, VOLTAGE ADJ.	Δ
IC101	AN6558F	I. C. PHONO EQ. AMP.		S101	RSR6B001	SW, INPUT SELECTOR	
IC301	UPC4570C	I. C. TONE AMP.		S102	RSS6D001	SW, REC. SELECTOR	
IC501	SV13204A	I. C. POWER AMP.	Δ	S103	ESB68139	SW, LOUDNESS/MODE/SUBSONIC	
		TRANSISTOR (S)		S301	ESB68137	SW, SOURCE DIRECT	
				S501	RSP2002	SW, SPEAKER SELECTOR	
		CONNECTOR (S)					
Q501	2SA992EFPTA	TRANSISTOR					
		DIODE (S)		CN103	RJU003K010M1	SOCKET (10P)	
				CN104	RJU003K008M1	SOCKET (8P)	
				CN201	RJU003K008M1	SOCKET (8P)	
D501	MA165	DIODE		CN401	RJU003K008M1	SOCKET (8P)	
D533	MA4160M	DIODE		CN701	RJS1A1704	SOCKET (4P)	
D601	1SR35200TB	DIODE	Δ	CN501A	RJS1A1704	SOCKET (4P)	
D602	LN018472PH	L. E. D.		CN501B	RJS1A1703	SOCKET (3P)	
D701-704	P300DLF	DIODE	Δ	CP103	RJT003K010M1	CONNECTOR (10P)	
D751	MA4160M	DIODE		CP104	RJT003K008M1	CONNECTOR (8P)	
D752, 753	MA4082MTA	DIODE		CP201	RJT003K008M1	CONNECTOR (8P)	
		VARIABLE RESISTOR (S)		CP401	RJT003K008M1	CONNECTOR (8P)	
						EARTH TERMINAL (S)	
VR201	EWJKX090B15	V. R. VOLUME CONTROL					
VR202	EWHFDA014G15	V. R. BALANCE CONTROL		E101	SNE1004-1	GND PLATE	
VR301	EW2XA000C15	V. R. BASS CONTROL		E701	SNE1004-1	GND PLATE	
VR302	EW2XA000C15	V. R. TREBLE CONTROL				FUSE HOLDER (S)	
		THERMISTOR (S)		FC1, 2	SJT390	FUSE HOLDER	Δ
TH201, 202	ERTD2ZHL104T	THERMISTOR				RELAY (S)	
		COIL (S)					
L1	SLQZ650MH49	COIL	Δ	RL501	SSY134	RELAY	
L501, 502	SLQY07G-40	COIL				JACK (S)	
		TRANSFORMER (S)					
T1	RTP1N5B009-V	POWER TRANSFORMER	Δ	JK1	SJS9231-1B	AC INLET	Δ (EG, EB)
		FUSE (S)		JK1	SJS9234B	AC INLET	Δ (GN)
F1	XBA2C20TB0	FUSE, 250V 2A	Δ	JK101	SJF3069N	PHONO/TUNER	
		SWITCH (ES)		JK102	SJF3069N	CD/AUX	
				JK103	SJF3069N	TAPE1 REC. OUT/PLAYBACK	
				JK104	SJF3069N	TAPE2/DAT	
				JK501	RJH4801-1	SPEAKER	
				JK502	SJJD19	HEADPHONES	

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
 * Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

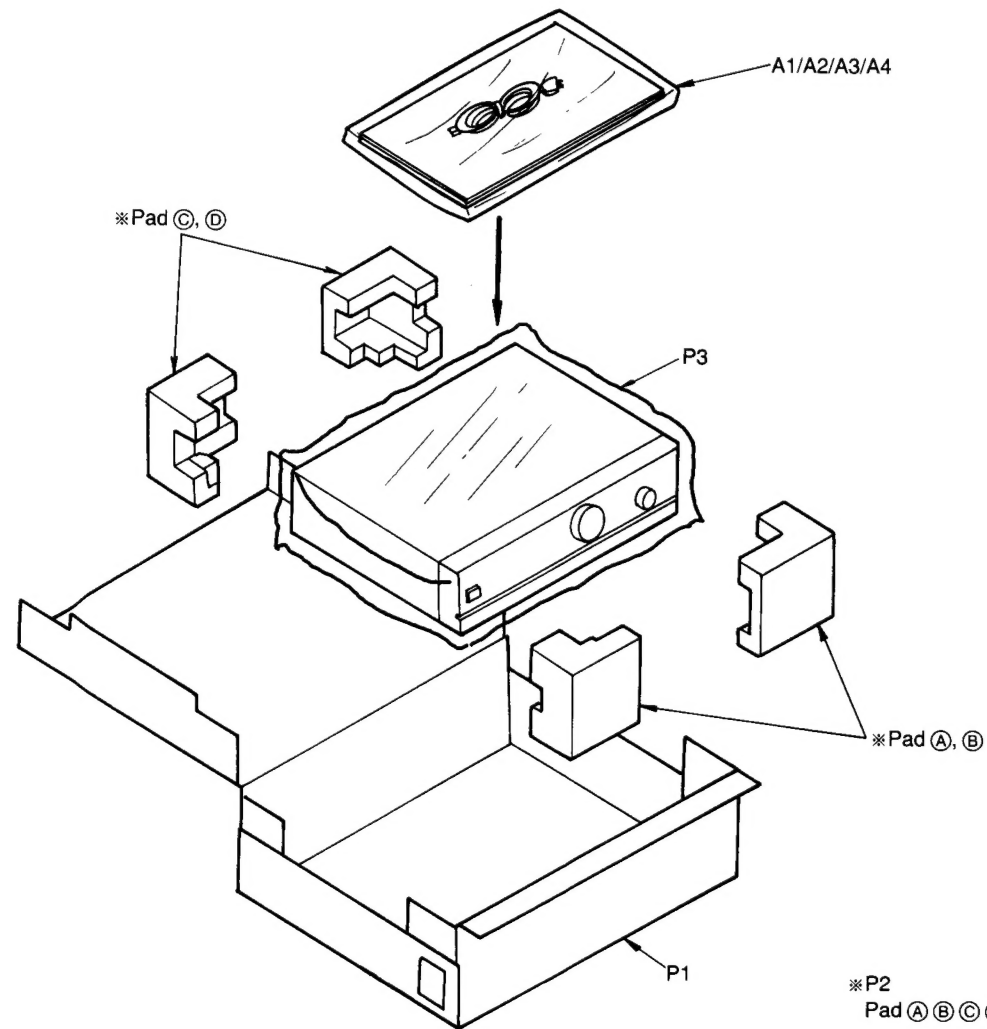
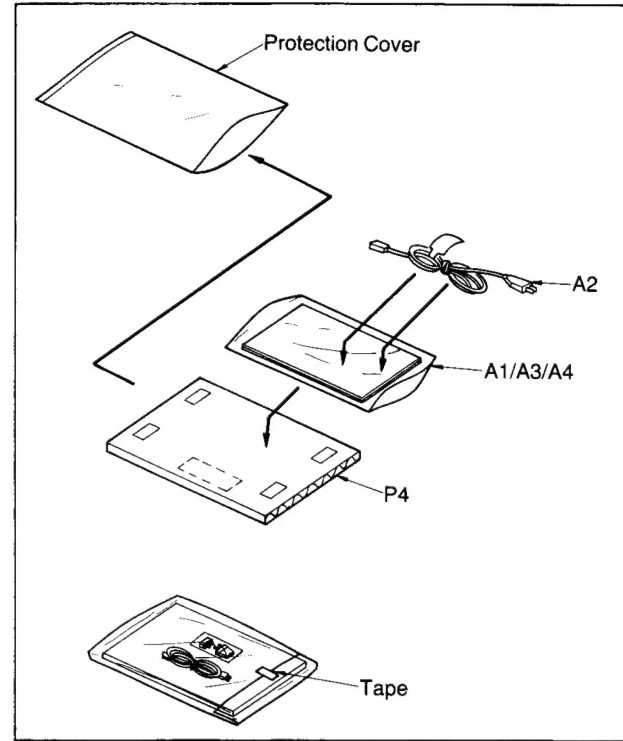
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS	R751, 752	ERG1SJ471E	1W 470	C712	ECKR1H473ZF5	50V 0.047U
R101, 102	ERDS2TJ102	1/4W 1K	R753	ERG1SJ561E	1W 560	C731-734	ECQB1H473KF3	50V 0.047U
R105, 106	ERDS2TJ224T	1/4W 220K	R754	ERG1SJ221E	1W 220	C751, 752	ECA1EAP470B	25V 47U
R109, 110	ERDS2TJ391	1/4W 390	R755-757	ERG1SJ271E	1W 270			
R113, 114	ERDS2TJ563	1/4W 56K						
R117, 118	ERDS2TJ271	1/4W 270						
R123, 124	ERDS2TJ680T	1/4W 68						
R125, 126	ERDS2TJ184T	1/4W 180K						
R127, 128	ERDS2TJ123	1/4W 12K						
R129, 130	ERDS2TJ563	1/4W 56K						
R131, 132	ERDS2TJ102	1/4W 1K						
R201-210	ERDS2TJ102	1/4W 1K						
R211, 212	ERDAS3G563T	1/4W 56K						
R213, 214	ERDS2TJ183T	1/4W 18K						
R215, 216	ERDS2TJ222	1/4W 2.2K						
R217	ERDS2TJ824	1/4W 820K						
R219, 220	ERDAS3G272T	1/4W 2.7K						
R221-224	ERDS2TJ102	1/4W 1K						
R231, 232	ERDS2TJ824	1/4W 820K						
R255, 256	ERDAS3G563T	1/4W 56K						
R301, 302	ERDAS3G561	1/4W 560						
R303, 304	ERDS2TJ823T	1/4W 82K						
R305, 306	ERDS2TJ474	1/4W 470K						
R307, 308	ERDS2TJ392T	1/4W 3.9K						
R309, 310	ERDS2TJ223	1/4W 22K						
R311, 312	ERDS2TJ102	1/4W 1K						
R313, 314	ERDS2TJ472	1/4W 4.7K						
R315, 316	ERDAS3G392T	1/4W 3.9K						
R317, 318	ERDAS3G223T	1/4W 22K						
R319, 320	ERDS2TJ333	1/4W 33K						
R501, 502	ERDS2TJ392T	1/4W 3.9K						
R503, 504	ERDS2TJ563	1/4W 56K						
R505, 506	ERDS2TJ222	1/4W 2.2K						
R507, 508	ERDS2TJ563	1/4W 56K						
R509, 510	ERDFS2VJ470T	1/4W 47						
R511, 512	ERD25FVJ100T	1/4W 10 Δ						
R513	ERDS2TJ223	1/4W 22K						
R514	ERDS1FVJ682T	1/2W 6.8K Δ						
R515	ERDS2TJ473	1/4W 47K						
R517, 518	ERDS2TJ561	1/4W 560						
R520	ERDS2TJ124T	1/4W 120K Δ						
R523, 524	ERG1SJ181E	1W 180						
R525, 526	ERG1SJ151E	1W 150						
R528	ERDS2TJ684	1/4W 680K						
R529, 530	ERG1SJ471E	1W 470						
R601	ERDS1FJ120	1/2W 12 Δ						
R602	ERDS2TJ221	1/4W 220						

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS				PACKING MATERIALS	
1	RGW0025A-K	MAIN VOLUME KNOB		P1	RP61117	PACKING CASE	
2	RGW0028-2K	BALANCE/TREBLE/BASS KNOB		P2	RPN0539	PAD	
3	RGW0144-K	INPUT SELECTOR KNOB		P3	XZB52XG0A01Z	PROTECTION COVER	
4	RKM0036A-K	CABINET		P4	RPQ0164	SPACER	
5	SNE2129-1	SCREW				ACCESSORIES	
6	XTBS3+8JFZ1	SCREW					
7	RGR0137B-A	REAR PANEL	(EG)	A1	RFKSUVZ320EG	INSTRUCTIONS MANUAL	(EG)
7	RGR0137B-B	REAR PANEL	(EB, GN)	A1	RQT1339-B	INSTRUCTIONS MANUAL	(EB, GN)
8	RGU0030	POWER BUTTON		A2	RJA0019-1K	AC POWER SUPPLY CORD	Δ (EG)
9	RGU0118-K	SPEAKER BUTTON		A2	SJA193	AC POWER SUPPLY CORD	Δ (EB)
10	RGU0119-K	DIRECT BUTTON		A2	SJA173	AC POWER SUPPLY CORD	Δ (GN)
11	RGU0120-K	LOUDNESS/SUBSONIC BUTTON		A3	RQA0013	WARRANTY CARD	(EG, EB)
12	RFKJUVZ320EG	BOTTOM BOARD ASS'Y		A3	RQX7433ZA	WARRANTY CARD	(GN)
12-1	RKA0009-1	FOOT		A4	RQCB0169	SERVICE CENTER LIST	
13	RFKNUVZ320EG	INDICATOR ASS'Y					
14	RFKGVZ320EG	FRONT PANEL ASS'Y					
15	XTWS3+8T	SCREW					
16	RGK0098-2K	SIDE ORNAMENT (L)					
17	RGK0099-2K	SIDE ORNAMENT (R)					
18	RGK0212-K	VOLUME ORNAMENT					
19	RGQ0006-1	POWER BUTTON ORNAMENT					
20	RMRO136-K	HOLDER					
21	RMRO137-K	HOLDER					
22	RMRO502	SPACER					
23	SHE187-2	P. C. B. SPACER					
24	SJS9231A	AC INLET COVER	(EG, EB)				
24	SJS9234A	AC INLET COVER	(GN)				
25	SMC6407-2	SHIELD PLATE					
26	SNE2123	GND SCREW					
27	SNE4021-1	NUT					
28	XTB3+8JFZ	SCREW					
29	XTBS3+8JFZ1	SCREW					
30	XTB3+16JFZ	SCREW					
31	XTB3+20JFZ	SCREW					
32	XTB3+8JFZ	SCREW					
33	RGK0097	ORNAMENT (GOLD LINE)					
34	RWJ1807070KQ	FLAT CABLE (7P) (#501)					
35	RWJ1803130KK	FLAT CABLE (3P) (#601)					
36	RWJ1804130QQ	FLAT CABLE (4P) (#701)					
37	RMQ0303	HEAT SINK COVER					
38	RMRO537-K	HOLDER					
39	RSQ0027	REMOTE SWITCH CONTROLLER					
40	RSC0105	PHONO SHIELD ANGLE					

CABINET PARTS LOCATION



■ PACKAGING



※P2
Pad (A) (B) (C) (D) Ass'y: RPN 0539

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